Notice of Allowability	Application No.	Applicant(s)	
	10/827,150	CHANG ET AL.	
	Examiner	Art Unit	
	Quang N. Vo	2625	
	Quarig IV. Vo	2025	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IN of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED 5) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course.	THIS initiative
1. This communication is responsive to <u>10/7/07</u> .			
2. The allowed claim(s) is/are 1,2,4-7 and 9-18.			
3. Acknowledgment is made of a claim for foreign priority of	under 35 U.S.C. § 119(a)-(d)	or (f).	
a) 🛛 All b) 🗌 Some* c) 🗌 None of the:			
. 1. Certified copies of the priority documents have	ve been received.		
Certified copies of the priority documents have			
Copies of the certified copies of the priority d	ocuments have been receive	ed in this national stage application fror	n the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to filmENT of this application.	e a reply complying with the requireme	nts
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi			OF
5. CORRECTED DRAWINGS (as "replacement sheets") me	ust be submitted.		
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	.1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) o FR 1.121(d).	of
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
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Attachment(s)	5. □ Notice of	nformal Patent Application	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	Summary (PTO-413),	
2. Notice of Draffperson's Patent Drawing Neview (1 10-940	Paper No	./Mail Date .	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. D Examiner	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	t ∖ 8. ⊠ Examiner	s Statement of Reasons for Allowance	
of Biological Material	Other	 ·	
KING! POON			
SUPERVISORY PATENT EXAMINER			

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The following is an examiner's statement of reasons for allowance:

Renumbered as claims 1-16 for pending claims 1, 2, 4-7, 9-18.

Claims 1,2, 4-7, and 9 of the current application are allowed for the reasons of none of prior art of record teaches nor suggests "dividing the image data into a plurality of image blocks; for each of the image blocks, selecting one of the pixels belonging to the image block being processed as a target pixel and as a starting pixel from which an error diffusion calculation is to be executed in a direction across the image block, wherein the target pixel is located on a boundary of the image block; assigning a predicted error to the target pixel, wherein the predicted error is determined according to at least an error diffused from a last pixel which is adjacent to the target pixel, wherein the last pixel and the target pixel do not belong to the same image block; and executing the error diffusion calculation on the rest of the pixels of the image blocks in the direction across the image block according to the predicted error of the target pixels of the image blocks."

Claims 10-18 of the current application are allowed for the reasons of none of prior art of record teaches nor suggests "dividing the image data into a plurality of image blocks, wherein each of the image blocks comprises a plurality of image rows, each of which comprises a plurality of pixels; for each of the image blocks, performing error diffusion of the image rows of the image block being processed in alternate directions, the performing step comprising: selecting a first one of the pixels belonging to a first one of the image rows of the image block being processed as a first target pixel and as a starting pixel from which an error diffusion calculation is to be executed in a first

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direction along the first one of the image rows, wherein the first target pixel is located on a boundary of the image block; assigning a first predicted error to the first target pixel; executing the error diffusion calculation on the rest of the pixels of the first one of the image rows according to the first predicted error of the first target pixel in the first direction along the first one of the image rows; selecting a second one of the pixels belonging to a second one of the image rows of the image block being processed as a second target pixel and as a starting pixel from which an error diffusion calculation is to be executed in a second direction along the second one of the image rows, wherein the second target pixel is located on a boundary of the image block; assigning a second predicted error to the second target pixel; and executing the error diffusion calculation on the rest of the pixels of the second one of the image rows according to the second predicted error of the second target pixel in the second direction along the second one of the image rows; wherein the first direction is the opposite of the second direction."

The closest prior art Maikeru et al. (Pub. No.: 06-301364), discloses the method and device capable of performing the error diffusion of an image at a high speed picture element rate by using parallel processing, either singularly or in combination with other cited reference obvious fails to anticipate or render the above limitations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Vo whose telephone number is 5712701121. The examiner can normally be reached on 7:30AM-5:00PM Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Y. Poon can be reached on 5712727440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Quang N. Vo 12/7/07

Patent Examiner

Quanglo

KING Y. POON
SUPERVISORY PATENT EXAMINED